
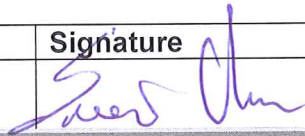
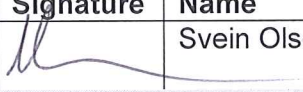
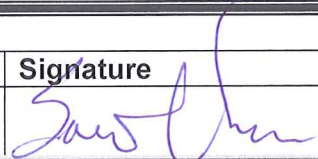

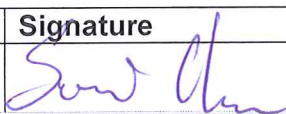

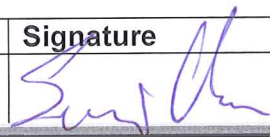




Test No: 4	Profile edition No: 2	Tool: CIMphony	Score: 4	
Test files: ENTSO-E Test Files				
Import		Export		
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip p ENTISOE_16_BE.zip		ENTISOE_16_BE_OGS_13J9h_SV.zip		
Comments/Results/Issues:				
<p>Two zip files loaded, boundary and MAS simultaneously. Datasets merged within tool, visually verified and power flow was executed. Line 1 was marked offline by changing Terminals to be connected=false. Load flow was executed and Line 1 was shown as having no power flow (i.e. offline). State Variable and Topology were exported as a single Zip file.</p>				
Supplementary files:				
OriginalLoadFlowResults.png ModifiedTopologyLoadFlowResults.png				
Date	Vendor		Test witness	
13/7/2011	Name	Signature	Name	Signature
	Alan McMorran		Svein Olsen	

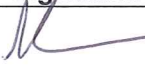

Test No: 5	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip		ENTSOE_16_BE_OGS_13J9h_SV.zip	
Comments/Results/Issues:			
<p>Two zip files loaded, boundary and MAS simultaneously. Datasets merged within tool, visually verified and power flow was executed. Generator G1 output changed from 90MW to 100MW and two loads had 5MW added.</p> <p>New powerflow executed and SV file exported</p>			
Supplementary files:			
OriginalLoadFlowResults.png ModifiedSVLoadFlowResults.png			
Date	Vendor	Test witness	
13/7/2011	Name	Signature	Signature
	Alan McMorran		
		Svein Olsen	

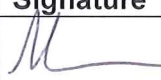
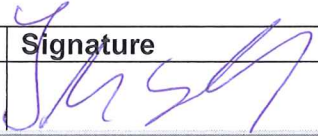
Test No: 7	Profile edition No: 2	Tool: Cimphony	Score: 4	
Test files: ENTSO-E Test Files				
Import		Export		
ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSGE_16_NL.zip ENTSO-E_16_PF_13J09h_NL.zip				
Comments/Results/Issues:				
ENTSO-E Boundary and NL MAS loaded from test files SV File from NL MAS removed within Cimphony DigSilent SV file imported into resource set Integration verified within tool by navigating through Equipment to State Variables DigSilent changes were: Change load Tennes 1 from 10 to 20MW and 10 to 20MVAR Change generation on W1 from 140 to 145MW (PV) Power flow executed successfully, results compared and were within tolerances.				
Supplementary files:				
OGSSVLoadFlowResults.png				
Date	Vendor		Test witness	
13/7/2011	Name	Signature	Name	Signature
	Alan McMorran		Svein Olsen	

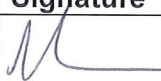
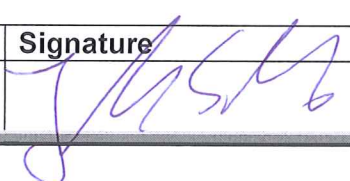
Test No: 9	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSE16_NL.zip ENTSE16_BE.zip ENTSE16_BE_OGS_13J9h_SV.zip		ENTSE16_OGS_13J12h.zip	
Comments/Results/Issues:			
<p>ENTSO-E Boundary and NL and BE MAS loaded from test files and integrated within software automatically. Verified through navigation.</p> <p>Powerflow executed successfully on merged model. Export run producing single Zip file containing: 2xEquipment, 2xTopology, Boundary Equipment, Boundary Topology and single State Variables file. Screenshot taken of result.</p> <p>BE SV and TP models removed from merged set. Single Zip file ENTSE16_BE_OGS_13J9h_SV.zip from Test 4 containing modified TP and SV files imported (taking Line 1 offline). Loadflow run on new set with modified NL TP and SV and results. Screenshot taken showing that Line 1 was now offline.</p>			
Supplementary files:			
ENTSE16_Merged_LoadFlowDiagram1.png – original results ENTSE16_Merged_LoadFlowDiagram2.png – results with Test 4 TP and SV			
Date	Vendor	Test witness	
13/7/2011	Name	Signature	Signature
	Alan McMorran		Svein Olsen 

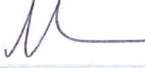

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Test No: 10	Profile edition No: 2	Tool: CIMphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSOE_16_BE_eg_12J9h_EQ.xml ENTSOE_16_BE_eg_12J9h_TP.xml ENTSOE_16_NL_eg_12J9h_EQ.xml ENTSOE_16_NL_eg_12J9h_TP.xml ENTSOE_16_EU_eg_12J9h_EQ.xml ENTSOE_16_EU_eg_12J9h_TP.xml ENTSOE_16_BE_NL_eg_11J16h_SV.xml			
Comments/Results/Issues:			
GE Output from Test 9 was imported. Files were provided by GE as individual files (not in a zip file). Loaded into CIMphony, merged, load flow was successfully executed. Results were compared with GE and were within tolerances			
Supplementary files:			
OGSLoadFlowResults.png			
Date	Vendor		Test witness
13/7/2011	Name	Signature	Signature
	Alan McMorran		Chris Nendick 



Test No: 11	Profile edition No: 2	Tool: CIMphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU .zip ENTSOE_16_BE.zip		ENTSOE_16_BE_OGS_13J16h_Diff.zip ENTSOE_16_BE_OGS_13J16h_Diff_E quipment.xml	
Comments/Results/Issues:			
<p>Belgian model and Boundary set was imported, changes were made by:</p> <p>Removed EnergyConsumer L1</p> <p>Removed Terminal for L1</p> <p>Removed LoadResponseCharacteristic for L1</p> <p>Removed SvPowerflow for L1</p> <p>The changes to the Equipment were saved as an incremental file ENTSOE_16_BE_OGS_13J16h_Diff_Equipment.xml</p> <p>The TP and SV files were exported as ENTSOE_16_BE_OGS_13J16h_Diff.zip</p> <p>The Powerflow was then executed and converged successfully. Bus C4 now shows 0 Load (as expected with L1 being removed).</p>			
Supplementary files:			
RemovedLoad_Powerflow.png			
Date	Vendor	Test witness	
13/7/2011	Name	Signature	Signature
	Alan McMorran		Chris Nendick 

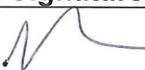
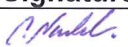
Test No: 12	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip ENTSOE_16_BE_OD_14J15h.zip ENTSOE_16_BE_OD_Diff_14J15h.xml			
Comments/Results/Issues:			
<p>Belgian model and Boundary set was imported. Siemens PTI Difference file from Test 11 was imported and applied to the BE EQ The changes were verified in the model browser (name change on EnergyConsumer D1 to D1_conf and addition of ConformLoad D2_conf and is LoadResponseCharacteristic and Terminal).</p> <p>Siemens PTI TP and SV file were imported as a single Zip and replaced the TP and SV already loaded. Powerflow was executed and successfully converged. Loadflow results were compared with Siemens PTI results and were within tolerances.</p>			
Supplementary files:			
DiffLoadFlowResults_CP.png			
Date	Vendor		Test witness
15/7/2011	Name	Signature	Name
	Alan McMorran		Jörg M. Schmidt
			


Test No: 13	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSOE_16_BE.zip ENTSOE_16_NL.zip		ENTSOE_16_Diff_EQ_15J9h_CP.zip ENTSOE_16_TP_SV_15J9h_CP.zip	
Comments/Results/Issues:			
<p>Belgian, Netherlands and Boundary sets were imported. Changes were made that affected Equipment on both Dutch and Belgian models:</p> <p>maxOperatingP for ThermalGeneratingUnit G1 in PP_Brussels was changed from 200 to 300 maximumSections for ShuntCompensator S1 in PP_Amsterdam was changed from 1 to 2</p> <p>The Save Differences command produced a zip file containing two Difference files, one for each MAS</p> <p>The TP and SV files for each MAS were exported into a single Zip file</p>			
Supplementary files:			
Test 13 2nd CP report inCIMDesk.JPG			
Date	Vendor		Test witness
15/7/2011	Name	Signature	Name
	Alan McMorran		Jörg M. Schmidt
			

Test No: 14	Profile edition No: 2	Tool: CIMphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTISOE_16_BE.zip ENTISOE_16_NL.zip ODMS_16_NL_OD_Diff_15J12.xml ODMS_16_BE_OD_Diff_15J12.xml ENTISOE_16_OD_15J12h_SV_TP.zip			
Comments/Results/Issues:			
<p>Belgian, Netherlands and Boundary sets were imported.</p> <p>Siemens PTI exports from Test 13 were used, containing 2x Difference files, 2x Topology and 1x State Variables. The Topology and SV files were put into a single Zip file and the difference files were not included in the Zip file.</p> <p>The difference files were merged into the loaded model first, with the changes verified visually. The existing Topology and State Variable files were removed and the Zip file containing 2x Topology and 1x State Variables from Siemens was integrated into the model.</p> <p>A powerflow was executed and successfully converged.</p>			
Supplementary files:			
IntegratedDataScreenshot_CP.png LoadFlowResult_ODIntegrated_CP.png			
Date	Vendor		Test witness
15/7/2011	Name	Signature	Name
	Alan McMorran		Andrei Karpatchev
			

Test No: 30	Profile edition No: 2	Tool: CIMphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO-E_Boundary_Set_28_June_2011_2ndEdition_EU.zip ENTSGE_16_BE.zip ENTSGE_16_NL.zip			
Comments/Results/Issues:			
<p>BE, NL and Boundary sets were loaded. The Siemens PTI BE boundary MAS set was selected and the software told to import it. No explicit directions were given on what to replace or remove, the software automatically matched the TP,SV and EQ files based on MAS URI in header and Profile URI in header.</p> <p>The resulting model had changes to the BE model from the replacement MAS (new Conform Load, renamed EnergyConsumer) and powerflow converged successfully.</p>			
Supplementary files:			
BrowserViewModifiedData.png PowerflowSolution_MAS_CP.png			
Date	Vendor	Test witness	
15/7/2011	Name Alan McMorran	Signature 	Name Andrei Karpachev
			Signature 

Test No: 31	Profile edition No: 2	Tool: CIMphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSOE_16_BE_OGS_AlteredHeader_13J17h.zip			
Comments/Results/Issues:			
<p>ENTSOE_BE set was extracted on the desktop and Header file for EQ manually altered to add in references to: http://example.com/fake/boundary http://example.com/fake/equipment</p> <p>When this was loaded these unresolved dependencies were reported to the user (along with existing unresolved dependencies to the header as the file was imported on its own without the header set)</p>			
Supplementary files:			
HeaderDependencyErrors.png			
Date	Vendor		Test witness
13/7/2011	Name	Signature	Name
	Alan McMorran		Chris Nendick
			

Test No: 32	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU .zip ENTISOE_16_NL.zip		ENTISOE_16_NL_DI.xml	
Comments/Results/Issues:			
<p>Netherlands MAS and Boundary set was imported and Diagram was loaded in Diagram Editor</p> <p>Transformer trafo1 was moved on the diagram and its Terminal had a bendpoint added.</p> <p>New DiagramLayout file was exported as zip</p> <p><i>The exported diagram was imported ok into OOMS. Sllm</i></p>			
Supplementary files:			
DiagramLayoutAltered_CP.png			
Date	Vendor		Test witness
15/7/2011	Name	Signature	Name
	Alan McMorran		Signature
			Chris Nendick 

Test No: 33	Profile edition No: 2	Tool: Cimphony	Score: 4
Test files: ENTSO-E Test Files			
Import		Export	
ENTSO- E_Boundary_Set_28_June_2011_2ndEdition_EU .zip ENTISOE_16_BE.zip		ENTSO-E_16_BE_CP_14J13h_GE.zip	
Comments/Results/Issues:			
<p>Belgian model and Boundary set was imported. Geographical data was rendered in Geospatial Editor. Coordinate for substation PP_Brussels was manually set to 4.3306, 50.9138. Geographical file was exported with updated location point.</p> <p>Belgian model and Boundary set was imported again into new model. Geographical data was removed from the model and the exported file was re-imported. Geospatial Editor was then loaded to verify geographical data was now included.</p> <p>The model had its Geographical data removed and Siemens PTI's geographical export was imported successfully. Geospatial Editor was then loaded and this and the browser view rendering verified their change (substation location point moved to 4.35, 50.93)</p>			
Supplementary files:			
GeoLocationOriginal.png GeoLocationModified.png GeoLocationSiemensImport.png			
Date	Vendor	Test witness	
13/7/2011	Name	Signature	Signature
	Alan McMorran		Svein Olsen 